



**Maryland Department of Environment**  
**Water Management Administration**  
**Compliance Program - Eastern Division**  
**407 Race St, Cambridge, MD 21613**  
**410-901-4020**

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**Field Inspection Report by:** Michele Burroughs

**Media Type(s):** NPDES Municipal Minor Surface Water

**Inspection Date:** September 16, 2010

**Site Name:** Assateague Island-National Seashore HQ WWTP

**Facility Address:** 7206 National Seashore Lane, Berlin, MD 21811

**County:** Worcester County

**NPDES Municipal Minor Surface Water**

**Permit / Approval Numbers:** DP-2530

**Site Status:** Active

**Site Condition:** Additional Investigation Required

**Contact(s):**  
Steve Main

**Recommended Action:** Continue Routine Investigation

**Inspection Reason:** Follow-up (Non-Compliance), Initial Quarterly, Initial Yearly

**Evidence Collected:**

Photos/Videos Taken, Visual Observation

**Inspection Findings:**

The system consists of a bar screen, followed by vibratory separator, an equalization tank, anoxic tank, an aerobic tank, and a reaeration tank. The effluent from the reaeration tanks is filtered through two parallel basket filters prior to treatment by 4 Berghof ultrafilters. The permeate from the ultrafilters is disinfected with 2 UV units, followed by a 2000 gallon vertical tank.

Mr. Main stated that the vibratory separator was added approximately 2 weeks ago and the process has not shutdown automatically since the installation. In addition, Mr. Main stated that there were programming changes made to the PLC, now allowing for a warning signal when the pressure drop across the basket filters is at 5 psi, and automatically shuts down when the pressure drop across the basket filters is 8 psi. Formerly, the system was shutting down when the pressure drop across the filters was 3 psi. In addition, a new hose was run to the anoxic tank from the shaker separator. Mr. Main stated that the ultra filters were manually cleaned last month and are now able to process 14-15 gallons/minute. Mr. Main stated that the ultra filters will be cleaned when the flow is reduced to 9 gallons/minute per manifold. The dissolved oxygen concentration was 2.14 mg/l in the anoxic tank and the pH was 7.53 s.u.. Mr. Main stated that they are now adding caustic soda and poly aluminum chloride to the system. Mr. Main stated that the flow meter had been replaced and recalibrated.

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Mr. Main stated that he was not in receipt of recent laboratory data since the additional separator was added to the system. Mr. Main stated that no solids have been removed from the system since start-up.

The new visitor's center is open, and has been plumbed to be able to use brown water in the toilets. Mr. Main stated that they made the request to use the brown water to MDE, and were told that the request would not be reviewed for approximately 3 months time. Mr. Main stated that the facility has the ability to chlorinate the permeate for use in the toilets of the new visitors center.

### NPDES Municipal Minor Surface Water - Inspection Checklist

<b><i>Inspection Item</i></b>	<b><i>Status</i></b>	<b><i>Comments</i></b>
1. Does the facility have a discharge permit? [Environment Article §9-323a(1-3)]	No Violations Observed	
2. Is the discharge permit current? Has facility applied for renewal? [Environment Article §9-328a(1)]	No Violations Observed	
3. Is the facility as described in the current permit? Are treatment processes as described in the current permit? [COMAR 26.08.04.01.01B(4)]	No Violations Observed	
4. Has notification been submitted about any new, different or increased discharges? [40 CFR Part 122 Subpart C Section 122.42.b(1-3)]	No Violations Observed	
5. Is the number and location of discharge points as described in the discharge permit? [Environment Article §9-3314]	No Violations Observed	
6. Has permittee submitted correct name and address of receiving waters? [40 CFR 122.21.j(3)]	No Violations Observed	
7. Is the permittee meeting the compliance schedule per permit requirements? [COMAR 26.08.04.02-1.02-1A(3)]	No Violations Observed	
8. Has the operator or superintendent been certified by the Board in the appropriate classification for the facility? [COMAR 26.06.01.05A(1)]	No Violations Observed	
9. Are adequate records being maintained for the sampling date, time, and exact location; analysis dates and times; individual performing analysis; and analytical results? [COMAR 26.08.04.03.03B(3)(a, b, c, e)]	No Violations Observed	
10. Are adequate records being maintained for the analytical methods/techniques used? [COMAR 26.08.04.03.03B(3)(d)]	No Violations Observed	
11. Does the permittee retained a minimum of 3 years worth of monitoring records including raw data and original strip chart recordings; calibration and maintenance records; and reports? [COMAR 26.08.04.03.03B(1)]	No Violations Observed	
12. Is the lab and monitoring equipment being properly calibrated and maintained? Are they keeping records to reflect this? [Environment Article §9-3313]	No Violations Observed	

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13. Is laboratory controls and appropriate quality assurance procedures properly operated and maintained? [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	
14. Has the permittee submitted the monitoring results on the proper Discharge Monitoring Report form? [COMAR 26.08.04.03.03C(1)]	No Violations Observed	
15. Has the permittee submitted these results within the allotted time? [COMAR 26.08.04.03.03C(2)]	No Violations Observed	
16. Are discharge monitoring reports complete and reflect permit conditions? [COMAR 26.08.04.03B(3)]	No Violations Observed	
17. Is the facility being properly operated and maintained including:(a) stand-by power or equivalent provisions available, (b) adequate alarm system for power or equipment failure available, (c) all treatments units are in service, . [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	
18. Is sewage sludge managed correctly per permit requirements? [COMAR 26.04.06.03.03]	No Violations Observed	
19. Any by-pass since last inspection? Has permittee submitted notice of any by-pass? [40 CFR Part 122 Subpart C Section 122.41.m(4)(i)(C)]	No Violations Observed	
20. Any non-complying discharges experienced since last inspection? Has regulatory agency been notified? [40 CFR Part 122 Subpart C Section 122.41.l(6)]	Not Evaluated	
21. Have overflows occurred since the last inspection? [COMAR 26.08.10.02A]	No Violations Observed	
22. Has records of overflows been maintained at the facility for at least five years? [COMAR 26.08.10.06A-B]	No Violations Observed	
23. Are flow measuring devices properly installed and operated, calibration frequency of flow meter adequate, flow measurement equipment adequate to handle expected ranges of flow? [40 CFR Part 122 Subpart C Section 122.41.e]	No Violations Observed	
24. Are discharge monitoring points adequate for representative sampling? Do parameters and sampling frequency meet the minimum requirements? Does the permittee use the method of sample collection required by the permit? [Environment Article §9-331(4)]	No Violations Observed	

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25. Are analytical testing procedures approved by EPA? If alternate analytical procedures are used, proper approval has been obtained? [COMAR 26.08.01.02B(1)]	No Violations Observed	
26. Has the permittee notified the Department of the name and address of the commercial laboratory? [COMAR 26.08.04.03.03A(3)]	No Violations Observed	
27. Were discharges observed at the authorized outfalls? Does the facility have any unauthorized discharges to waters of the State? [Environment Article §9-322]	No Violations Observed	
28. Does the discharges or receiving waters have any visible pollutants (oil sheen, grease, turbidity, foam, floating solids, color), odor, noncompliant DO concentrations, and/or noncompliant temperature ranges? [Environment Article §9-314b(1)]	No Violations Observed	
29. Were discharge samples collected? [Environment Article §9-261c(1)]	Not Evaluated	
30. Is the facility required to have a storm water pollution prevention plan? Has storm water pollution prevention plan been developed and implemented as required? Does storm water pollution prevention plan require modifications to prevent runoff of pollutants? [40 CFR Part 122 Subpart B Section 122.26.c(1)(I)(A-B)]	No Violations Observed	
31. Are the permit conditions being met? [Environment Article §9-326a(1)]	No Violations Observed	

Inspector: \_\_\_\_\_  
 Michele Burroughs

Received by: \_\_\_\_\_